



IFW16

## RAW SEQUENCE LISTING

DATE: 09/30/2004

PATENT APPLICATION: US/09/978,318C

TIME: 14:59:32

Input Set : D:\Utsc671.txt

Output Set: N:\CRF4\09302004\I978318C.raw

3 <110> APPLICANT: ALDAZ, MARCELO C.  
 4 BEDNAREK, ANDRZEJ  
 6 <120> TITLE OF INVENTION: WWOX: A PUTATIVE TUMOR SUPPRESSOR GENE MUTATED IN  
 7 MULTIPLE CANCERS  
 9 <130> FILE REFERENCE: UTSC:671US  
 11 <140> CURRENT APPLICATION NUMBER: 09/978,318C  
 12 <141> CURRENT FILING DATE: 2001-10-15  
 14 <150> PRIOR APPLICATION NUMBER: 60/240,277  
 15 <151> PRIOR FILING DATE: 2000-10-13  
 17 <160> NUMBER OF SEQ ID NOS: 68  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 2264  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Human  
 27 <400> SEQUENCE: 1

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 29 tgagttcctg agcgagtggg cccggcagcg ggcgataggg gggccagggtg cctccacagt 120  
 30 cagccatggc agcgtgagcg tacgcggggc tggacgacac ggacagtgag gacgagctgc 180  
 31 ctccgggctg ggaggagaga accaccaagg acggctgggt ttactacgcc aatcacaccg 240  
 32 aggagaagac tcagtgggaa catccaaaaa ctggaaaaag aaaacgagtg gcaggagatt 300  
 33 tgccatacgg atgggaacaa gaaactgatg agaacggaca agtggttttt gttgaccata 360  
 34 taaataaaaag aaccacctac ttggacccaa gactggcggt tactgtggat gataatccga 420  
 35 ccaagccaac caccggcaca agatacagcg gcagcaccac tgccatggaa attctccagg 480  
 36 ccggggattt cactggcaca gtggttggtg tcactggagc taattcagga atagggttcg 540  
 37 aaaccgccaa gtctttttgcc ctccatggcg cacatgtgat cttggcctgc aggaacatgc 600  
 38 caagggcgag tgaagcagtg tcacgcattt tagaagaatg gcataaagcc aaggtagaag 660  
 39 caatgacctt ggacctcgct ctgctccgta gcgtgcagca ttttgctgaa gcattcaagg 720  
 40 ccaagaatgt gcctcttcat gtgcttggtg gcaacgcagc aacttttgcct ctaccttgga 780  
 41 gtctcaccaa agatggcctg gagaccacct ttcaagtga tcatctgggg cacttctacc 840  
 42 ttgtccagct cctccaggat gttttgtgcc gtcagctcc tgcccgtgtc attgtggtct 900  
 43 cctcagagtc ccatcgattt acagatatta acgactcctt gggaaaactg gacttcagtc 960  
 44 gcctctctcc aacaaaaaac gactattggg cgatgctggc ttataacagg tccaagctct 1020  
 45 gcaacatcct cttctccaac gagctgcacc gtcgcctctc cccacgcggg gtcacgtcga 1080  
 46 acgcagtgcg tcctggaaat atgatgtact ccaacattca tcgcagctgg tgggtgtaca 1140  
 47 cactgctgtt taccttggcg aggcctttca ccaagtccat gcaacaggga gctgccacca 1200  
 48 ccgtgtactg tgctgctgtc ccagaactgg agggctctggg agggatgtac ttcaacaact 1260  
 49 gctgccgctg catgccctca ccagaagctc agagcgaaga gacggcccgg accctgtggg 1320  
 50 cgctcagcga gaggtgatc caagaacggc ttggcagcca gtccggctaa gtggagctca 1380  
 51 gagcggatgg gcacacacac ccgcctctgt tgtgtccctc cacgcaagtg ccagggtctg 1440  
 52 gcccttcca aatgtccctc ccgcaagagt aaaggaaata agagcagtc 1500  
 53 caacagagtg aaaaatctta agtaccatg ggaagcaggg aattcctggg gttaaagtac 1560  
 54 acttttctgg ggctgggcta ggcataggtc tctttgcttt ctggtggtgg cctgtttgaa 1620

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55 agtaaaaaacc tgcttggtgt gtaggttccg tatctccctg gagaagcacc agcaattctc 1680
56 tttctttttac tgttatagaa tagcctgagg tcccctcgtc ccatccagct accaccacgg 1740
57 ccaccactgc agccggggggc tggccttctc ctacttaggg aagaaaaagc aagtgttcac 1800
58 tgctccttgc tgcattgata caggagataa ttgtttcatt catcctgacc aagactgagc 1860
59 cagcttagca actgctgggg agacaaatct cagaaccttg tcccagccag tgaggatgac 1920
60 agtgacaccc agaggagta gaatacgcag aactaccagg tggcaaagta cttgtcatag 1980
61 actcctttgc taatgctatg caaaaaattc tttagagatt ataacaaatt tttcaaata 2040
62 ttccttagat accttgaaag gcaggaaggg aagcgtatat acttaagaat acacaggata 2100
63 ttttgggggg cagagaataa aacgttagtt aatccctttg tctgtcaatc acagtctcag 2160
64 ttctcttgct ttcacattgt acttaaacct cctgctgtgc ctcgcatcct atgcttaata 2220
65 aaagaacatg cttgaatatc aaaaaaaaaa aaaaaaaaaa aaaa 2264
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69 <211> LENGTH: 414
70 <212> TYPE: PRT
71 <213> ORGANISM: Human
73 <400> SEQUENCE: 2
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75 1 5 10 15
77 Glu Leu Pro Pro Gly Trp Glu Glu Arg Thr Thr Lys Asp Gly Trp Val
78 20 25 30
80 Tyr Tyr Ala Asn His Thr Glu Glu Lys Thr Gln Trp Glu His Pro Lys
81 35 40 45
83 Thr Gly Lys Arg Lys Arg Val Ala Gly Asp Leu Pro Tyr Gly Trp Glu
84 50 55 60
86 Gln Glu Thr Asp Glu Asn Gly Gln Val Phe Phe Val Asp His Ile Asn
87 65 70 75 80
89 Lys Arg Thr Thr Tyr Leu Asp Pro Arg Leu Ala Phe Thr Val Asp Asp
90 85 90 95
92 Asn Pro Thr Lys Pro Thr Thr Arg Gln Arg Tyr Asp Gly Ser Thr Thr
93 100 105 110
95 Ala Met Glu Ile Leu Gln Gly Arg Asp Phe Thr Gly Lys Val Val Val
96 115 120 125
98 Val Thr Gly Ala Asn Ser Gly Ile Gly Phe Glu Thr Ala Lys Ser Phe
99 130 135 140
101 Ala Leu His Gly Ala His Val Ile Leu Ala Cys Arg Asn Met Ala Arg
102 145 150 155 160
104 Ala Ser Glu Ala Val Ser Arg Ile Leu Glu Glu Trp His Lys Ala Lys
105 165 170 175
107 Val Glu Ala Met Thr Leu Asp Leu Ala Leu Leu Arg Ser Val Gln His
108 180 185 190
110 Phe Ala Glu Ala Phe Lys Ala Lys Asn Val Pro Leu His Val Leu Val
111 195 200 205
113 Cys Asn Ala Ala Thr Phe Ala Leu Pro Trp Ser Leu Thr Lys Asp Gly
114 210 215 220
116 Leu Glu Thr Thr Phe Gln Val Asn His Leu Gly His Phe Tyr Leu Val
117 225 230 235 240
119 Gln Leu Leu Gln Asp Val Leu Cys Arg Ser Ala Pro Ala Arg Val Ile
120 245 250 255
122 Val Val Ser Ser Glu Ser His Arg Phe Thr Asp Ile Asn Asp Ser Leu

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123          260          265          270
125 Gly Lys Leu Asp Phe Ser Arg Leu Ser Pro Thr Lys Asn Asp Tyr Trp
126          275          280          285
128 Ala Met Leu Ala Tyr Asn Arg Ser Lys Leu Cys Asn Ile Leu Phe Ser
129          290          295          300
131 Asn Glu Leu His Arg Arg Leu Ser Pro Arg Gly Val Thr Ser Asn Ala
132 305          310          315          320
134 Val His Pro Gly Asn Met Met Tyr Ser Asn Ile His Arg Ser Trp Trp
135          325          330          335
137 Val Tyr Thr Leu Leu Phe Thr Leu Ala Arg Pro Phe Thr Lys Ser Met
138          340          345          350
140 Gln Gln Gly Ala Ala Thr Thr Val Tyr Cys Ala Ala Val Pro Glu Leu
141          355          360          365
143 Glu Gly Leu Gly Gly Met Tyr Phe Asn Asn Cys Cys Arg Cys Met Pro
144          370          375          380
146 Ser Pro Glu Ala Gln Ser Glu Glu Thr Ala Arg Thr Leu Trp Ala Leu
147 385          390          395          400
149 Ser Glu Arg Leu Ile Gln Glu Arg Leu Gly Ser Gln Ser Gly
150          405          410
152 <210> SEQ ID NO: 3
153 <211> LENGTH: 26
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 3
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162 <211> LENGTH: 29
163 <212> TYPE: DNA
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 4
167 acggtggtgg cagctccctg ttgcgatgg                                     29
170 <210> SEQ ID NO: 5
171 <211> LENGTH: 33
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 5
176 acggtggtgg cagctccctg ttgacattct tgg                               33
179 <210> SEQ ID NO: 6
180 <211> LENGTH: 32
181 <212> TYPE: DNA
182 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 6
185 acggtggtgg cagctccctg ttgccattct tc                                 32
188 <210> SEQ ID NO: 7
189 <211> LENGTH: 30
190 <212> TYPE: DNA
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 7
194 acggtggtgg cagctccctg ttgctattcc                                     30

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197 <210> SEQ ID NO: 8
198 <211> LENGTH: 33
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 8
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207 <211> LENGTH: 27
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 9
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215 <210> SEQ ID NO: 10
216 <211> LENGTH: 19
217 <212> TYPE: DNA
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 10
221 tcgcagctgg tgggtgtac      19
224 <210> SEQ ID NO: 11
225 <211> LENGTH: 21
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
229 <400> SEQUENCE: 11
230 agctccctgt tgcattgact t      21
233 <210> SEQ ID NO: 12
234 <211> LENGTH: 22
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 12
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243 <211> LENGTH: 22
244 <212> TYPE: DNA
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 13
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252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 14
257 aggcaagtgcg caggcgtgag c      21
260 <210> SEQ ID NO: 15
261 <211> LENGTH: 22
262 <212> TYPE: DNA
263 <213> ORGANISM: Homo sapiens
265 <400> SEQUENCE: 15
266 cagccctggc acttgctga gg      22
269 <210> SEQ ID NO: 16

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270 <211> LENGTH: 22
271 <212> TYPE: DNA
272 <213> ORGANISM: Homo sapiens
274 <400> SEQUENCE: 16
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278 <210> SEQ ID NO: 17
279 <211> LENGTH: 23
280 <212> TYPE: DNA
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 17
284 gagttcctga gcgagtggac ccg                23
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 30
289 <212> TYPE: DNA
290 <213> ORGANISM: Homo sapiens
292 <400> SEQUENCE: 18
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296 <210> SEQ ID NO: 19
297 <211> LENGTH: 22
298 <212> TYPE: DNA
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 19
302 aatactacat cctaaacaac aa                22
305 <210> SEQ ID NO: 20
306 <211> LENGTH: 30
307 <212> TYPE: DNA
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 20
311 agttttttatt attatgagtt tttattaaat        30
314 <210> SEQ ID NO: 21
315 <211> LENGTH: 20
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens
319 <220> FEATURE:
320 <221> NAME/KEY: modified_base
321 <222> LOCATION: (3)..(5)
322 <223> OTHER INFORMATION: R = A OR G
324 <400> SEQUENCE: 21
325 cccrcraata ctacatccta                20
328 <210> SEQ ID NO: 22
329 <211> LENGTH: 20
330 <212> TYPE: DNA
331 <213> ORGANISM: Homo sapiens
333 <220> FEATURE:
334 <221> NAME/KEY: modified_base
335 <222> LOCATION: (11)
336 <223> OTHER INFORMATION: Y = C OR T/U
338 <400> SEQUENCE: 22
339 gggatgaggt ygttttgttt                20

```

**VERIFICATION SUMMARY**

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L:678 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:32